



## Internal 20X 10X 40X CD Rewriter



**Owner's Manual**  
Please read before using this equipment.

## **Features**

Your RadioShack Internal 20X 10X 40X CD Rewriter is designed specifically to meet the data and music storage needs of a new generation of PC users. Your CD rewriter's features include:

**20X Write, 10X Rewrite, 40X Max CD Read**

— the CD rewriter is fast enough to help you keep up with a wide variety of multimedia tasks.

**Supplied MUSICMATCH Software** — makes it easy to rip (convert from one format to another), organize, burn (copy onto a CD-R or CD-RW disk), and play your digital music files.

**Supplied Nero Software** — makes it easy to burn data and music files, back up important data and application files onto a CD-R or CD-RW disk, create music CDs from MP3 files, edit audio files, create and work with CD jewel case inserts and inlay cards, and create karaoke mixes so you can sing along with your favorite music.

**IDE Interface** — provides the easiest possible installation with full performance.

**Write-Safe Technology** — the CD rewriter automatically turns its laser off if your PC slows down or is interrupted during the write process. This helps eliminate interruption of the data flow between the CD rewriter and your computer (which can ruin a CD-R disk), resulting in successful writing of your data to the CD-R or CD-RW disk.

**Flash Memory** — makes it easy to update the CD rewriter's firmware, providing the best possible compatibility with the latest hardware and software.

**Supplied DOS Device Driver Software** — makes it easy to configure the CD rewriter to work with your computer.

## **SYSTEM REQUIREMENTS**

Before connecting the CD rewriter, be sure your computer is an IBM® PC with Pentium 200 MHz processor or compatible, running Windows 95, Windows 98, Windows 2000, Windows ME, or Windows NT 4.0 with Service Pack 3 installed and having all of the following:

- an available slot on your IDE controller (ATA-2 or EIDE)
- at least 64 MB RAM
- at least 17 MB (42 MB recommended) free hard disk space (for installing supplied software)
- at least 10 MB free hard disk space for each minute of music you record (750 MB total)

**Notes:**

- You cannot use the CD rewriter with a Macintosh computer.
- You cannot use the CD rewriter to burn CDs if you install it with DOS or Windows 3.1. The CD rewriter works only as a CD-ROM drive with either of these operating systems.

## **FCC DECLARATION OF CONFORMITY**

This device complies with Part 15 of the *FCC Rules*. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device

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must accept any interference received, including interference that may cause undesired operation.

Product:	Internal 20X 10X 40X CD Rewriter
Model:	25-3049
Responsible Party:	RadioShack 100 Throckmorton Fort Worth, TX 76102
Phone:	817-415-3200

## SUPPLIED ACCESSORIES

Make sure you have all of the following accessories before disposing of the packing material.

- MUSICMATCH and Nero recording software CD
- Nero operating guide
- Audio cable
- Blank CD-R disk
- DOS device driver floppy disk
- 40-pin IDE cable
- Mounting screws
- Quick Installation Guide

## About CD-R and CD-RW Media

You can use CD-R and CD-RW blank disks with your CD rewriter. You can write information to a CD-R disk but cannot erase the information. You can write information to, erase information from, then write more information to a CD-RW disk.

We have included one blank CD-R disk with your CD rewriter.

## REQUIRED TOOLS

You will need the following items (not supplied) to install your CD rewriter.

- Phillips screwdriver
- Your computer's or motherboard's manual (to locate your computer's IDE controller)
- Your existing CD-ROM drive's manual (to locate your CD-ROM drive's jumpers)

## SAFETY INSTRUCTIONS

- Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning it. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Openings in the front panel and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is used.
- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short cut parts which could result in a fire or electric shock. Never spill liquid of any kind on the product.

**Warning:** This system employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

## □ Installation

### HARDWARE

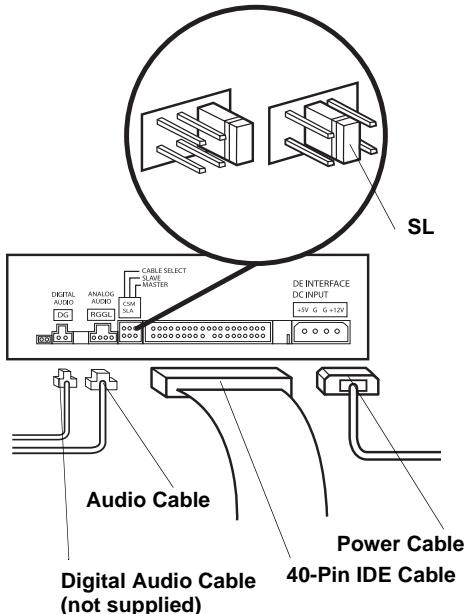
**Note:** You can mount the CD rewriter either horizontally or vertically.

1. Turn off your computer and all peripheral devices, then unplug the computer's power cord from the AC outlet or power strip.

**Caution:** The discharge of static electricity can damage electronic circuitry. You can avoid static discharge by touching a grounded metal object such as your computer's case before and while you install hardware inside your computer.

**Warning:** Some computer cases have sharp edges. Be careful when removing your computer's housing or casing.

2. Remove your computer's housing or casing.
3. If there is no CD-ROM drive already installed on your computer, connect one end of the supplied 40-pin IDE cable to the connector on the back of your CD rewriter then connect the other end of the cable to your motherboard's secondary IDE channel. Be sure to align the colored edge of the cable with PIN 1 of the secondary IDE channel. Then skip to Step 4.



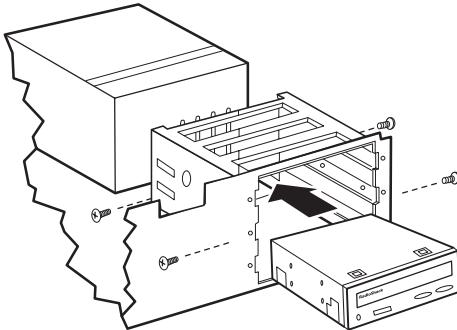
If there is a CD-ROM drive already installed on your computer, follow these steps, then continue with Step 4:

- a. Make sure that the cable connecting your existing CD-ROM drive and your computer's motherboard has 2 connectors (so you can connect both your existing CD-ROM drive and your CD rewriter to the same cable). If it does not, you can get a suitable IDE cable from your local RadioShack store.
- b. If your existing CD-ROM drive was connected to your motherboard's primary IDE channel, disconnect the cable from the motherboard, then reconnect it to the secondary IDE channel. Be sure to align the colored edge of the cable with PIN 1 of the secondary IDE channel.

- c. If necessary, set the device configuration jumper on your existing CD-ROM drive to its MA (master) position.
- d. If necessary, set the device configuration jumper on the CD rewriter to its SL (slave) position.

4. Locate a 4-pin drive power plug connected to your power supply, then connect it to the power connector on the back of your CD rewriter. If you cannot find a power plug, you can get a suitable Y-cable at your local RadioShack store.

5. Slide the CD rewriter into an empty 5.25-inch bay, then use the 4 supplied screws to secure the CD rewriter into the bay. The screws electronically ground the CD rewriter.



6. Connect one end of the supplied audio cable to the audio connector on your motherboard, then connect the other end of the cable to the audio connector on the back of the CD rewriter.

7. Replace your computer's case and secure it with the original screws.

8. Turn on your computer. If you are running Windows 95, Windows 98, Windows 2000, Windows ME, or Windows NT, it automatically detects your CD rewriter.

**Note:** If you are running Windows 3.1 or a DOS operating system, install the DOS device driver (see "Installing the DOS Device Driver").

## SOFTWARE

Your CD rewriter includes the following software disks:

- DOS Device Driver floppy disk
- MUSICMATCH and Nero recording software CD

### Installing the DOS Device Driver

**Important:** If you are running Windows 95, Windows 98, Windows 2000, Windows ME, or Windows NT, do not install the DOS device driver.

1. Run DOS on your computer.
2. Insert the supplied DOS Device Driver floppy disk into your floppy disk drive. At the command prompt, type **A:** (or the drive letter for the floppy disk drive you are using followed by a colon (:)), then press **Enter**.
3. Type **setup** then press **Enter**. Then follow the on-screen instructions to install the device driver. The driver file is copied onto your computer's hard disk.

**Note:** Express Setup is recommended for beginning users while Custom Setup is recommended for experienced users.

4. Reboot your computer to finish installing the driver. The CD rewriter is ready to use.

**Important:** Read the **readme.txt** file on the DOS device driver floppy disk for more information about using the CD rewriter with your computer.

## Installing the CD Writing Software

Insert the supplied MUSICMATCH and Nero recording software CD into your CD-ROM drive or your CD rewriter. A dialog box appears with installation instructions. Follow the instructions to install the software.

### Notes:

- For detailed installation instructions, refer to the Operating Guide supplied with the MUSICMATCH and Nero recording software CD.
- Some programs might require that you reboot your system after installing them. Follow the program's prompt to reboot your computer if necessary.

files are placed in nearby clusters. This saves time and trouble when the MUSICMATCH and Nero recording software is searching for the files you want to record on CD.

**Caution:** Do not connect too many devices internally to your computer system. Heavy loads carried by your computer system's power supply might result in unstable power delivery to each connected device, causing your computer system to become unstable.

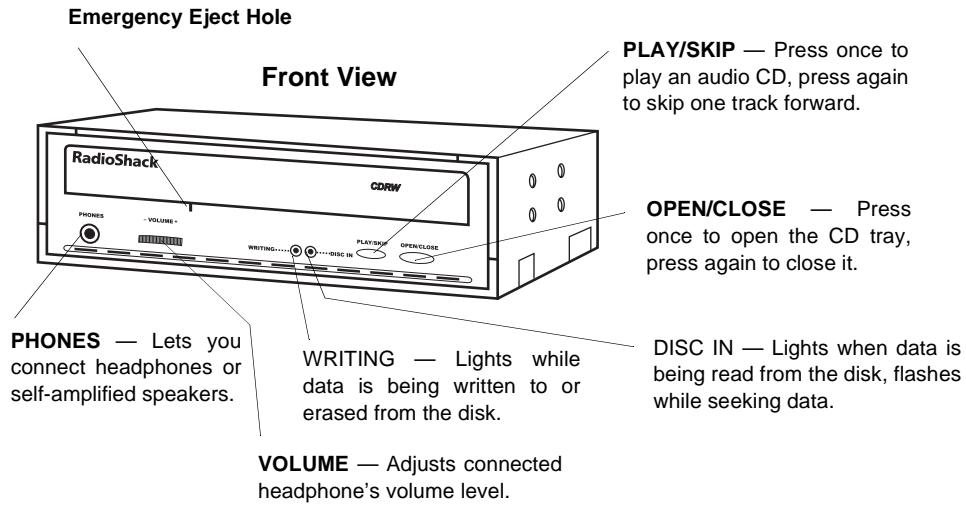
## OPTIMIZING YOUR SYSTEM

A stable recording environment is a must for proper CD recording. Recording must be performed free of any hardware or software interruption.

For best results, use a hard disk drive for recording that has *only* the operating system (Windows 95, Windows 98, Windows 2000, Windows ME, Windows NT 4.0) and the CD writing software installed on it. If you do not have an extra hard disk drive, follow these steps to optimize your system.

1. Close all resident programs, including any anti-virus programs, screen savers, System Agent, Power Management, etc.
2. Turn off Auto Insert notification.
3. Close any program running in a maximized or minimized window.
4. Defragment your hard disk drive. This is particularly important when you write files to a CD from your hard disk drive. Defragmenting your hard disk drive re-allocates all the files so these relevant

## □ A Quick Look At Your CD Rewriter



WRITING	DISK IN	Description
Off	Off	Drive ready/no disk loaded
Off	Blinking	Power on or reading
Off	Steady	Disk loaded/ready for access
Blinking	Blinking	Test before writing
Steady	Blinking	Writing

## □ Operation

**Note:** Follow the instructions in the supplied MUSICMATCH and Nero recording software operating guide to copy data and music files.

### LOADING A CD

1. Press **OPEN/CLOSE** on the front of the CD rewriter. The CD tray pops out automatically.
2. Load the CD in the CD tray with the label side up.
3. Press **OPEN/CLOSE** again or slightly push the front of the CD tray to close it.

### UNLOADING A CD

1. Press **OPEN/CLOSE** on the front of the CD rewriter. The CD tray pops out automatically.
2. Remove the CD from the CD tray.
3. Press **OPEN/CLOSE** again or slightly push the front of the CD tray to close it.

## Emergency Eject

If the CD tray does not eject automatically after you press **OPEN/CLOSE**, follow these steps to manually pull out the tray.

1. Turn off the CD rewriter.

2. Insert an object such as a straightened paper clip into the emergency eject hole. The CD tray ejects partially.
3. Gently pull out the CD tray.

## Troubleshooting

If your CD rewriter is not working as it should, these suggestions might help you eliminate the problem. If the CD rewriter still does not operate properly, take it to your local RadioShack store for assistance.

### **The CD rewriter's icon does not appear in My Computer or Windows Explorer.**

- If you cannot find the CD rewriter's icon in Windows Explorer, restart your computer, or shut it down and then turn it on again.
- Make sure each connected device in your computer has power. To check if the CD rewriter is receiving power, press **OPEN/CLOSE** and make sure the CD tray opens and closes.

### **I can't tell which icon is the CD rewriter's icon.**

Double-click **My Computer**, right-click the icon you want to check, then select **Eject**. The selected drive's tray opens.

### **The CD rewriter cannot read an installed CD, or an error message appears when I double-click the CD rewriter's icon.**

- The CD might be loaded upside down or off-center. Reload the CD with its label side up and make sure it is loaded in the center of the tray.

- When you load a CD, **DISC IN** flashes as the CD rewriter reads the information on the CD. When it finishes reading the information, **DISC IN** stops flashing and turns green.
- If the disk you loaded is blank, copy information to it then try again.

### **An error message containing the words "buffer under-run" appears.**

Buffer under-run is caused by interruption of the data flow between the CD rewriter and your computer. Follow these steps to help prevent buffer under-run:

- Your hard disk might be too fragmented. Run your computer's disk defragmenter.
- There might not be enough space in a temporary directory. Delete unneeded files from your hard disk.
- Your hard disk might be too slow. Try a faster hard disk.
- Your hard disk might be compressed. We do not recommend using the CD rewriter with a compressed hard disk or disk partition.
- Some types of older hard disks might have "dumb" thermal calibration. The CD rewriter does not work with dumb thermal calibration.

- You might be using software that does not support your CD rewriter's Write-Safe technology. Check with your local RadioShack store or the Internet for software updates.

## FREQUENTLY ASKED QUESTIONS (FAQ)

### What are 'ripping' and 'burning'?

The process of converting audio from one format (such as CD audio) to another (such as MP3) is called *ripping*. The MUSICMATCH software supplied with your CD rewriter includes all the tools you need to rip, organize, and play your MP3 audio collection.

The process of transferring files from your PC to a CD-R or CD-RW drive is called *burning*. The Nero software supplied with your CD rewriter lets you easily burn backups of your important data, burn collections of files such as digital photos for long-term storage, or copy CD's for safekeeping.

### The CD rewriter transfers data too slowly. What can I do to speed it up?

- In some cases, setting your hard disk's read-ahead optimization setting to **None** might speed up the rate at which the CD rewriter transfers data. Follow these steps to adjust your hard disk's read-ahead optimization.
  1. From the Start Menu, click on **Settings** then click on **Control Panel**.
  2. Double-click on **System**, click on **Performance**, then click on **File System...** under *Advanced settings*.
  3. Slide **Read-ahead optimization** to **None**.
- You might be trying to record data using a network or from the Internet. We do not recommend using the CD rewriter to record data from a network or from the Internet, as the network's bandwidth might not be sufficient. Copy files you want to use to your local hard disk instead.
- You might be trying to record too many small files, damaged source files, or files already in use by your computer or other applications. If your data includes more than 10,000 very small files, create a disk image first, or record at a slower speed.
- You might be trying to copy from a CD that is scratched, dirty, or damaged.
- It might be necessary to write audio at slower speed than those you can achieve for data, since writing CD-DA audio requires streaming more bits per second to the recorder.
- Try recording at a lower speed. It takes longer to empty the buffer when recording at a lower speed.
- Keep the CDs, the CD rewriter, and your CD-ROM drive free of dust.
- Close all other application programs.
- Disable the screen saver and anti-virus programs.
- Disable power management or delay the power saving time.
- Do not allow CD-R or CD-RW media to overheat.
- Try a different brand of CD-R or CD-RW media.

### I cannot copy from one CD to another.

- Some CD-ROM disks do not let you directly copy files to the CD rewriter or are incapable of digital audio extraction. Try another brand of disk.

- Make sure you have a CD-ROM drive installed on your computer. You must have a CD-ROM drive installed to copy files from it.
- Some CD disks might have copy protections or other features that do not allow a CD-to-CD copy.

**The quality of recorded audio is poor.**

- Make sure the audio cable is connected between your sound card and the CD rewriter or CD-ROM.
- Make sure that you do not have any sound-muting feature turned on through your monitor or software.
- Try playing .wav files already on your hard disk to see if they sound poor before you copy them to a CD.

**I cannot see a second session reading from a CD-ROM drive.**

- Eject the CD and reload it.
- Refresh the screen by selecting **My Computer** in Windows Explorer then pressing F5.
- Make sure your CD-ROM drive can read CD-RW disks. CD-RW disks can be used only in your CD rewriter or in newer multiread CD-ROM drives.
- Make sure the CD rewriter or another CD-ROM drive can properly read the disk. If another CD-ROM drive can read the disk, the problem is probably with your CD rewriter. Contact your local RadioShack store for updated drivers or patch files.
- If you are using Windows 3.1, make sure you are using MSCDEX.EXE Version 2.23 or later. To confirm this, restart your computer then press **F8** when *Starting MS-DOS* appears. Repeatedly

click on **Y** until you see a line containing **MSCDEX.EXE**, then press **Y**. The version number appears.

If you cannot find **MSCDEX.EXE**, you can download it from <ftp://ftp.microsoft.com/Softlib/MSFILES/MSCD223.EXE>.

**I cannot see the CD label or all files on the CD within Windows Explorer.**

- Refresh the screen by selecting **My Computer** in Windows Explorer then pressing F5.

**One of my programs cannot locate the CD in the CD rewriter.**

- Some programs can only locate the first logical drive letter assigned to a CD-ROM or a CD rewriter. For example, if your CD-ROM drive is assigned to drive D: and your CD rewriter is assigned to drive E:, the program will locate drive D: but not drive E:. You must assign the same drive letter to both your CD-ROM and CD rewriter.

To do this In Windows, right click **My Computer**, click **Properties**, open Device Manager and double-click the icon for the CD-ROM drive, then click **Setting**. Under *Reserved drive letters*, select the drive letter *after* the existing letter (for both the start and end drive letter) then click **OK**. Then double-click the CD rewriter icon and click **Setting**. Under *Reserved drive letters*, select the drive letter *before* the current one then click **OK**.

## CARE

Keep the CD rewriter dry; if it gets wet, wipe it dry immediately. Use and store the CD rewriter only in normal temperature environments. Handle the CD rewriter carefully; do not drop it. Keep the CD rewriter away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the CD rewriter's internal components can cause a malfunction and might invalidate its warranty. If your CD rewriter is not performing as it should, take it to your local RadioShack store for assistance.

Most potential problems with your CD rewriter can be avoided if you keep the CD disks you use with the CD rewriter clean. Use a lens-cleaning cloth to gently wipe away dust on the disk surface. Rough movement scratches the CD.

### **Limited One-Year Warranty**

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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